her	ISBN	ISBN - <b>0495011401</b>		Publisher - Thomson Learning				-
Chemistry: Principles & Reactions  Type - P1  Copyright - 2006  Edition - 5th  Course - Chemistry  Grade(s) - 9,10, 11, 12								
the P	Type -	- P1	Author - M	asterson/ Hurley				Ş
ed by	Copyr	ight - 2006	h	Readability - 9.3 Flesch-Kind			1	
ovide	Cours	Course - Chemistry			Grade	Grade(s) - 9,10, 11, 12		
ď	Teacher Edition ISBN if applicable 049501441						5014419	
Overall Recommendation:    Recommended as Basal   Overall Strengths, Weaknesses, Comments:								
	This text is adequate at best but understandably is suited for a more advanced and mature student. Its more obvious limitations are in the areas of addressing diverse learners, providing opportunities for inquiry and critical thinking, and assessment tools.							
CRITERIA This basal resource								
A. Encompasses KY Content Standards & Grade Level  Expectations  ☐ Strong Evidence ☐ Moderate Evidence ☐ Little or No Evidence							dence	
			esigned to be	used in an electi	ve course	e outside t	he Program of Stu	dies
	1) Inc	ludes the 7 Bi	g Ideas of so	ience to the follo	wing ex	tent:		
	a) Structure and Transformation of Matter			Strong				
	b)	Motion and Fo	orces			Stron	g 🗌 Moderate 🔲 L	_ittle ⊠ N/A
	c)	The Earth and	the Universe	<b>)</b>		Stron	g 🔲 Moderate 🔲 L	Little ⊠ N/A
	d)	Unity and Dive	ersity			Stron	g 🗌 Moderate 🔲 L	.ittle ⊠ N/A
	e)	Biological Cha	ınge			Stron	g 🗌 Moderate 🔲 L	.ittle ⊠ N/A
	f)	Energy Transf	ormation			Stron	g 🗌 Moderate 🔀 L	ittle N/A
	g)	Interdepender	nce			Stron	g 🗌 Moderate 🔲 L	.ittle ⊠ N/A
	un	dresses conte derstandings t indards.		nduring ted Program of S	Studies	⊠ Stron	g 🔲 Moderate 🔲 L	.ittle ☐ N/A
		dresses conte		kills and concep	ts from	Strone     St	g 🔲 Moderate 🔲 L	ittle N/A

Content addressed is current, relevant and non- trivial	Strong ☐ Moderate ☐ Little ☐ N/A						
5) Provides opportunities for critical thinking/reasoning	☐ Strong ☑ Moderate ☐ Little ☐ N/A						
<ul> <li>6) Strengths, Weaknesses, Comments:</li> <li>Specific strengths-which areas/concepts are covered exceptionally well?</li> <li>Specific weaknesses-which areas/concepts would likely require supplementing?</li> </ul>							
While this text is designed for a higher-level student, it includes sufficient relative content but appears to be lacking in opportunities for critical thinking/reasoning. With the exception of Challenge Problems at chapter ends and the exercises in the student CD-ROM, additional opportunities are absent.							
B. Functionality & Suitability	Strong Evidence  Moderate Evidence  Little or No Evidence						
1) Suitability	☐ Strong ☐ Moderate ☐ Little ☐ N/A						
<ul> <li>Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.</li> </ul>							
2) Content quality	Strong ☐ Moderate ☐ Little ☐ N/A						
<ul> <li>Free from factual errors</li> <li>Content is presented conceptually when possible—more than a mere collection of facts</li> <li>Content included accurately represents the knowledge base of the discipline</li> <li>Theories/scientific models contained represent a broad consensus of the scientific community</li> </ul>							
3) Connections to Literacy Note: may apply to either student or teacher editions	☐ Strong ☐ Moderate ☑ Little						
<ul> <li>Employs a variety of reading levels and is grade/level at Contains pre, during, post reading activities</li> <li>Provides opportunities for summarizing, reviewing, and at multiple levels of difficulty for a variety of learning style</li> <li>Student text provides opportunity to integrate reading at Uses vocabulary that is age and content appropriate</li> <li>Focuses on critical vocabulary vs. extensive lists</li> <li>Identifies key vocabulary through definitions in both text</li> <li>Engaging text- does the text facilitate learning?</li> <li>Does understanding the text require having performed to</li> </ul>	reinforcing vocabulary skills and concepts les. nd writing t and glossary						
4) Connections to Technology	☐ Strong ☑ Moderate ☐ Little						
<ul> <li>Integrates technology and reflects the impact of technol</li> <li>Uses technology in the collection and/or manipulation or</li> </ul>							

5) Support for Diverse Learners	☐ Strong ☐ Moderate ☒ Little				
<ul> <li>Provides support for ESL students</li> <li>Provides support for differentiation of instruction in diverse classing Note: may apply only to teacher edition</li> </ul>	rooms				
<ul> <li>6) Strengths, Weaknesses, Comments:</li> <li>Reviewers may provide page numbers to point out specific strong evaluation standards.</li> </ul>	g examples for individual				
While appropriate content is included, there is little, if any, so suitability for diverse populations. The available technology (resources) while attractive, provide limited enhancement for	CD-ROMs and online				
C. Supports Inquiry and Skill Development	Strong Evidence Moderate Evidence Little or No Evidence				
1) Promotes Inquiry, research and Application of Learning	☐ Strong ☑ Moderate ☐ Little				
<ul> <li>Provides opportunities for inquiry and research that includes activities such as self-selecting topics, formulating authentic questions, gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions.</li> <li>Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.)</li> <li>Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.</li> <li>Provides opportunities for application of learned concepts.</li> <li>Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.</li> <li>Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.</li> <li>Note: may apply to either teacher or student edition</li> </ul>					
2) Skill Development	☐ Strong ☑ Moderate ☐ Little				
<ul> <li>Provides opportunities to make sense of data</li> <li>Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish fact/opinion, recognize bias)</li> <li>Provides opportunities to examine a range of types of evidence</li> <li>Contains embedded activities (or extensions) that emphasize use of technology for problem solving         Note: may apply to either teacher or student edition     </li> <li>Strengths, Weaknesses, Comments:</li> </ul>					
	all concents developed				
An abundance of problem-solving exercises are included with however, there is an obvious lack of opportunities to apply tr thinking and reasoning skills.					

D. Supports Best Practices of Teaching and Learning	Strong Evidence Moderate Evidence Little or No Evidence				
1) Engages Students	☐ Strong ☑ Moderate ☐ Little				
<ul> <li>Includes content geared to the needs, interests, and abilities of students</li> <li>Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.</li> <li>Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences</li> <li>Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels</li> <li>Activities are truly congruent to the concepts addressed, not merely correlated <i>Note: may apply to either teacher or student edition</i></li> </ul>					
2) Uses Assessment to Inform Instruction	☐ Strong ☑ Moderate ☐ Little				
<ul> <li>Includes multiple means of assessment as an integral part of instruction</li> <li>Provides evaluation measures in the teacher edition that supports differentiated learning activities</li> <li>Embedded assessments reflect a variety of Depth of Knowledge levels         <i>Note: may apply to either teacher or student edition</i></li> <li>Strengths, Weaknesses, Comments:         <ul> <li>Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards</li> </ul> </li> </ul>					
As one might expect, this text is geared toward a more mature audience and, hence, has little more than the student's self-motivation to engage the student. Because of this, there is a limited variety of strategies offered to enhance student learning. Any variety in assessment tools is likewise limited to the standard Test Bank available to the instructor.					
E. Has an Organization/ Format that Supports Learning and Teaching	☐ Strong Evidence ☑ Moderate Evidence ☐ Little or No Evidence				
1) Organizational Quality	☐ Strong ☑ Moderate ☐ Little				
<ul> <li>Print and/or electronic materials present minimal barriers to learners</li> <li>Presents chapters/lessons in an organized and logical sequence</li> </ul>					

- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that

reinforce content standards.

- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit

• Construction appears to be durable and able to withstand normal use

☐ Strong 
☐ Moderate 
☐ Little

 Items identified as essential components support the learning goals and concept coverage of the basal

#### 3) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The text is obviously designed and organized for the more mature chemistry student. While the student interactive CD-ROMS offer some attractive additional exercises, tutorials, and simulations, additional support materials for the student are at additional cost.

#### F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

☐ Strong Evidence
☐ Little or No Evidence

#### 1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- · Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

#### 2) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

As previously described, these materials are available at additional cost to the student. Only the student CD-ROMs, online tutoring service, and the web-based learning system is avaiilable to the student.